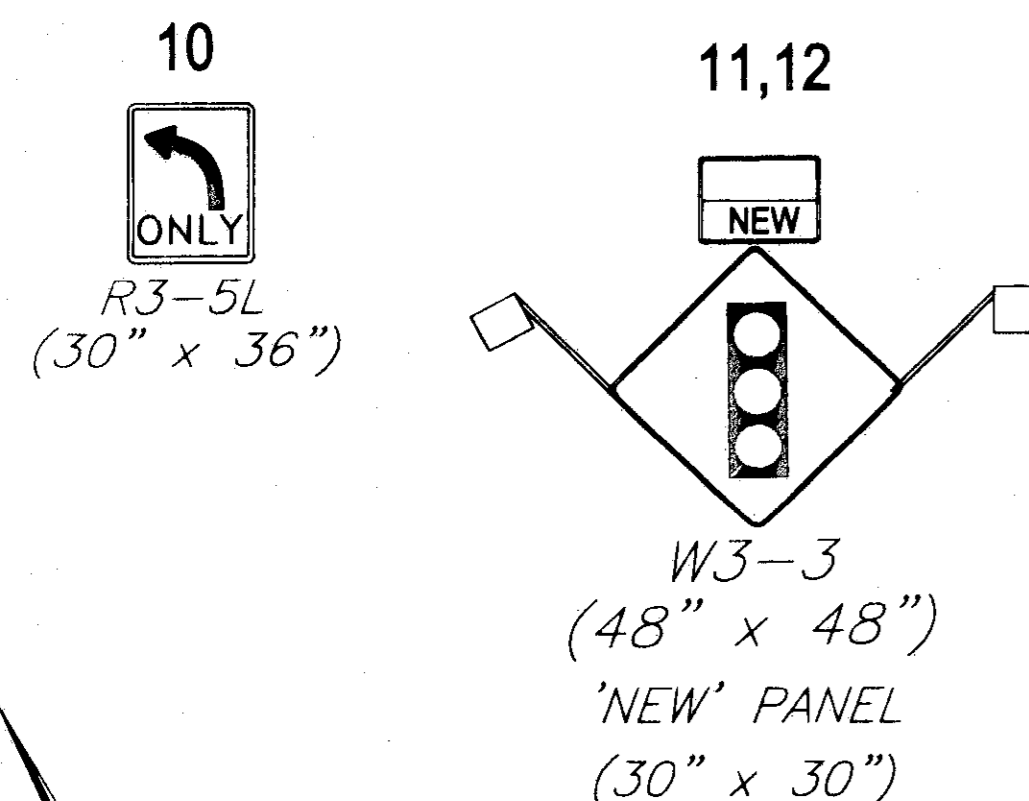
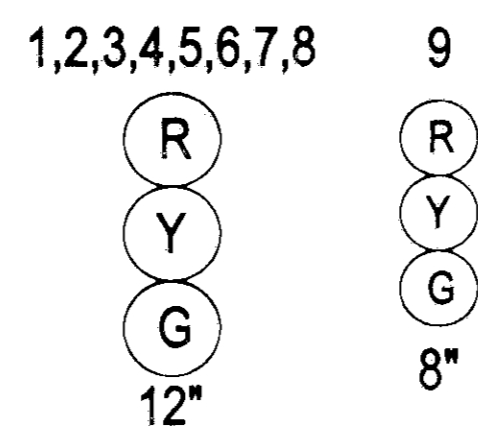


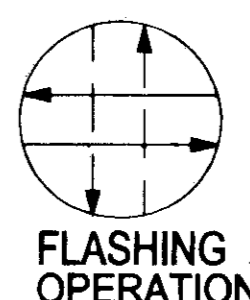
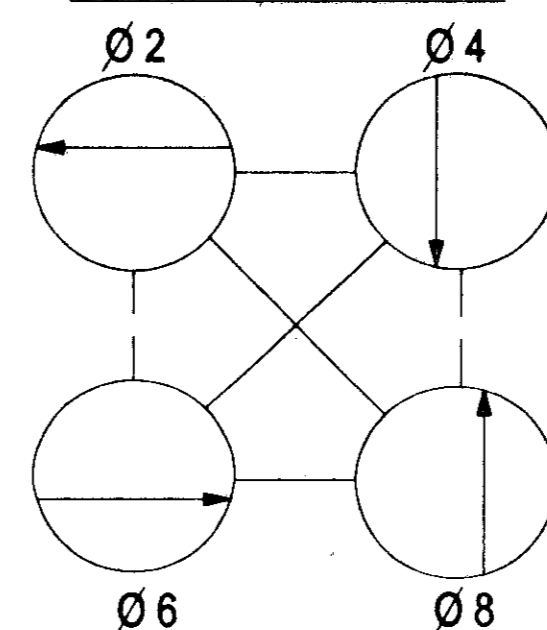
# PROPOSED SIGNS



# PROPOSED SIGNAL



# NEMA PHASING

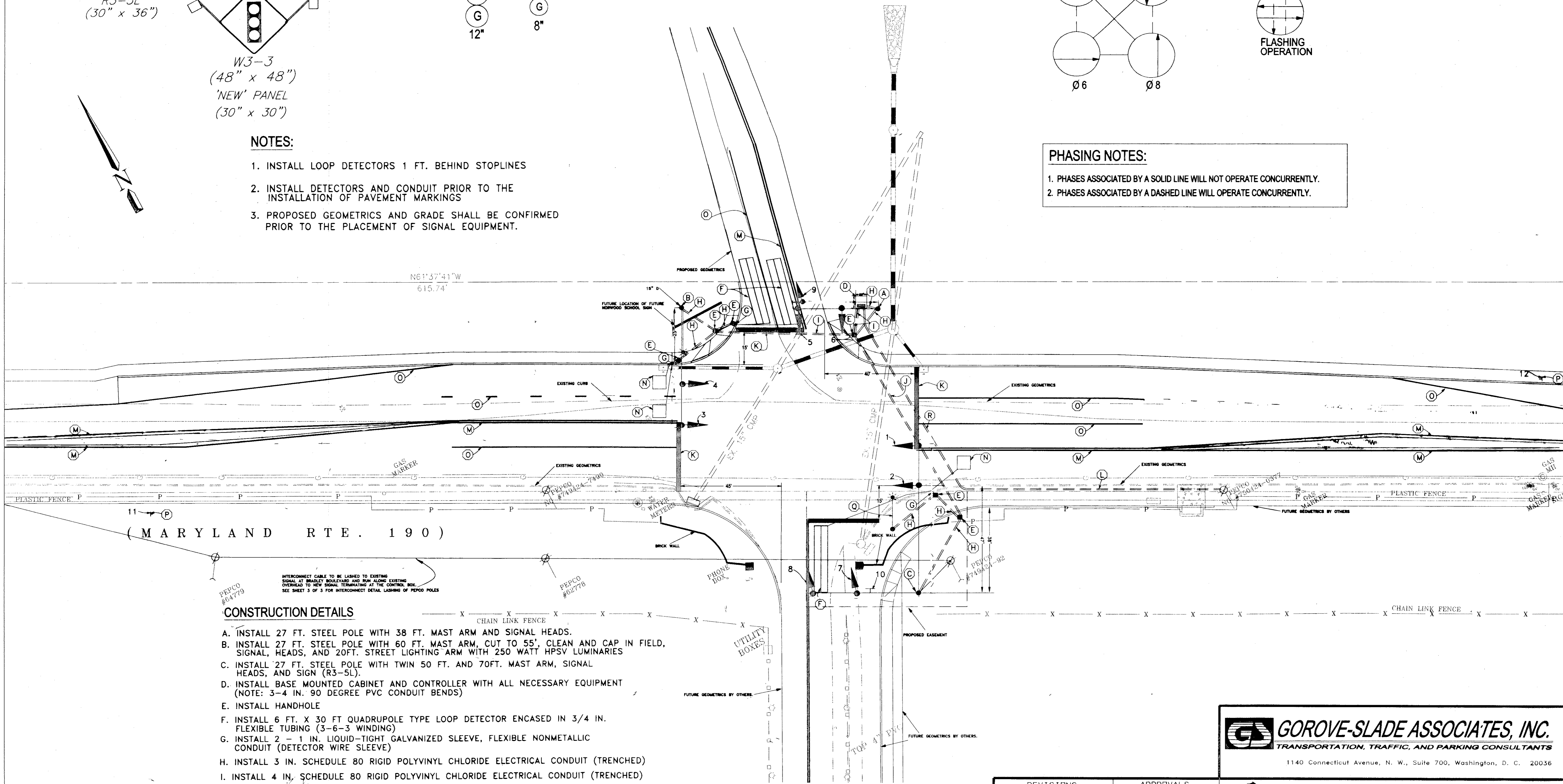


# NOTES:

1. INSTALL LOOP DETECTORS 1 FT. BEHIND STOPLINES
2. INSTALL DETECTORS AND CONDUIT PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS
3. PROPOSED GEOMETRICS AND GRADE SHALL BE CONFIRMED PRIOR TO THE PLACEMENT OF SIGNAL EQUIPMENT.

# PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.



# CONSTRUCTION DETAILS

- INSTALL 27 FT. STEEL POLE WITH 38 FT. MAST ARM AND SIGNAL HEADS.
- INSTALL 27 FT. STEEL POLE WITH 60 FT. MAST ARM, CUT TO 55', CLEAN AND CAP IN FIELD, SIGNAL, HEADS, AND 20FT. STREET LIGHTING ARM WITH 250 WATT HPSV LUMINARIES
- INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT. AND 70FT. MAST ARM, SIGNAL HEADS, AND SIGN (R3-5L).
- INSTALL BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: 3-4 IN. 90 DEGREE PVC CONDUIT BENDS)
- INSTALL HANDHOLE
- INSTALL 6 FT. X 30 FT. QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 3/4 IN. FLEXIBLE TUBING (3-6-3 WINDING)
- INSTALL 2 - 1 IN. LIQUID-TIGHT GALVANIZED SLEEVE, FLEXIBLE NONMETALLIC CONDUIT (DETECTOR WIRE SLEEVE)
- INSTALL 3 IN. SCHEDULE 80 RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED)
- INSTALL 4 IN. SCHEDULE 80 RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED)
- INSTALL 4 IN. SCHEDULE 80 RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SLOTTED)
- INSTALL 24 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS
- PROPOSED UNDERGROUND ELECTRIC SERVICE BY PEPCO WITH A 4" SCHEDULE 40 PVC, 1-WAY BY MSHA - TRENCHED
- INSTALL 5 IN. DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKINGS
- 6' X 6' SAMPLING STATION
- INSTALL 5 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS
- INSTALL 1 W3-3 SIGN FOR A 90 DAY PERIOD, ONE ON THE EASTBOUND APPROACH AND ON FOR THE WESTBOUND APPROACH ALONG MD 190. LOCATE EACH SIGN 225 FEET FROM CORRESPONDING STOP LINE.
- INSTALL 30 FOOT LIGHTING STRUCTURE WITH 15 FOOT BRACKET ARM AND 250 WATT HPSV LUMINARIES.
- PROPOSED UNDERGROUND ELECTRIC SERVICE BY PEPCO WITH A 4" SCHEDULE 40 PVC, 1-WAY BY MSHA - SLOTTED

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES	
AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W

**GOROVE-SLADE ASSOCIATES, INC.**  
TRANSPORTATION, TRAFFIC, AND PARKING CONSULTANTS

1140 Connecticut Avenue, N. W., Suite 700, Washington, D. C. 20036



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
**Office of Traffic & Safety**  
TRAFFIC ENGINEERING DESIGN DIVISION  
RIVER ROAD (MD 190) AND NORWOOD SCHOOL & CONGRESSIONAL COUNTRY CLUB ENTRANCES

DRAWN BY: Chad A. Baird	COUNTY: Montgomery County	TS NO.
CHECK BY: Rob T. Kerns, P.E.	LOG MILE:	3813
DATE: May 25, 1999	F. A. P. NO.	T. I. M. S. NO.
SCALE: 1" = 20'	S. H. A. NO. BW996M82	C-472
		SHEET NO. 1 OF 3

REVISIONS	APPROVALS
	ASST. CHIEF EDD SECTION
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENG. DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY